

**17-1011 Architects, Except Landscape and Naval****FA**

Plan and design structures, such as private residences, office buildings, theaters, factories, and other structural property. *Examples: Architectural Designer; Building Consultant; Site Planner*

**Training Category:** Degree plus work experience

2007 Average Wage:	\$32.69
2006 Estimated Employment:	318
2016 Projected Employment:	375
Growth Rate, 2006-2016:	17.9%
Annual Openings:	12

<b>Industry</b>	<b>2006 Share</b>	<b>2016 Share</b>
5413 Architectural and Engineering Services	67.6%	70.1%
Self-Employed Workers	20.4%	18.1%
236 Construction of Buildings	n	n
238 Specialty Trade Contractors	n	n
6113 Colleges and Universities	n	n

**17-1012 Landscape Architects****FA**

Plan and design land areas for such projects as parks and other recreational facilities, airports, highways, hospitals, schools, land subdivisions, and commercial, industrial, and residential sites. *Examples: Environmental Planner; Land Planner; Landscape Designer*

**Training Category:** Bachelor's degree

2007 Average Wage:	\$35.06
2006 Estimated Employment:	82
2016 Projected Employment:	99
Growth Rate, 2006-2016:	20.7%
Annual Openings:	4

<b>Industry</b>	<b>2006 Share</b>	<b>2016 Share</b>
Self-Employed Workers	18.3%	17.2%
Federal Government, ex. Postal Service	1.2%	1.0%
444 Building Material & Garden Supply Stores	n	n
5413 Architectural and Engineering Services	n	n
5414 Specialized Design Services	n	n
5617 Services to Buildings and Dwellings	n	n

**17-1021 Cartographers and Photogrammetrists****LS**

Collect, analyze, and interpret geographic information provided by geodetic surveys, aerial photographs, and satellite data. Research, study, and prepare maps and other spatial data in digital or graphic form for legal, social, political, educational, and design purposes. May work with Geographic Information Systems (GIS). May design and evaluate algorithms, data structures, and user interfaces for GIS and mapping systems. *Examples: Field Map Editor; Mapper*

**Training Category:** Bachelor's degree

<b>2007 Average Wage:</b>	\$19.34
<b>2006 Estimated Employment:</b>	83
<b>2016 Projected Employment:</b>	93
<b>Growth Rate, 2006-2016:</b>	12.0%
<b>Annual Openings:</b>	4

<b>Industry</b>	<b>2006 Share</b>	<b>2016 Share</b>
Local Government, ex. Education	15.7%	15.1%
State Government, ex. Education and Hospitals	13.3%	12.9%
511 Publishing Industries	n	n
5413 Architectural and Engineering Services	n	n
713 Amusements, Gambling, and Recreation	n	n
813 Religious, Grantmaking, Civic, Prof. & Similar Orgs	n	n

**17-1022 Surveyors****VF**

Make exact measurements and determine property boundaries. Provide data relevant to the shape, contour, gravitation, location, elevation, or dimension of land or land features on or near the earth's surface for engineering, mapmaking, mining, land evaluation, construction, and other purposes. *Examples: Geodetic Surveyor; Land Examiner; Mineral Surveyor*

**Training Category:** Bachelor's degree

<b>2007 Average Wage:</b>	\$25.15
<b>2006 Estimated Employment:</b>	296
<b>2016 Projected Employment:</b>	364
<b>Growth Rate, 2006-2016:</b>	23.0%
<b>Annual Openings:</b>	16

<b>Industry</b>	<b>2006 Share</b>	<b>2016 Share</b>
5413 Architectural and Engineering Services	79.4%	82.4%
Self-Employed Workers	3.7%	3.0%
Local Government, ex. Education	1.0%	1.1%
221 Utilities	n	n
236 Construction of Buildings	n	n
511 Publishing Industries	n	n

**17-2011 Aerospace Engineers****LS**

Perform a variety of engineering work in designing, constructing, and testing aircraft, missiles, and spacecraft. May conduct basic and applied research to evaluate adaptability of materials and equipment to aircraft design and manufacture. May recommend improvements in testing equipment and techniques. *Examples: Aerodynamicist; Flight Test Engineer; Aeronautical Engineer*

**Training Category:** Bachelor's degree

<b>2007 Average Wage:</b>	\$48.74
<b>2006 Estimated Employment:</b>	n
<b>2016 Projected Employment:</b>	n
<b>Growth Rate, 2006-2016:</b>	n
<b>Annual Openings:</b>	n

<b>Industry</b>	<b>2006 Share</b>	<b>2016 Share</b>
336 Transportation Equipment Manufacturing	n	n
5417 Scientific Research and Development Svcs	n	n

**17-2031 Biomedical Engineers****LS**

Apply knowledge of engineering, biology, and biomechanical principles to the design, development, and evaluation of biological and health systems and products, such as artificial organs, prostheses, instrumentation, medical information systems, and health management and care delivery systems. *Example: Orthopedic Designer*

**Training Category:** Bachelor's degree

<b>2007 Average Wage:</b>	\$27.72
<b>2006 Estimated Employment:</b>	48
<b>2016 Projected Employment:</b>	53
<b>Growth Rate, 2006-2016:</b>	10.4%
<b>Annual Openings:</b>	2

<b>Industry</b>	<b>2006 Share</b>	<b>2016 Share</b>
339 Miscellaneous Manufacturing	n	n
5413 Architectural and Engineering Services	n	n
5417 Scientific Research and Development Svcs	n	n
621 Ambulatory Health Care Services	n	n
622 Hospitals	n	n

**17-2041 Chemical Engineers****LF**

Design chemical plant equipment and devise processes for manufacturing chemicals and products, such as gasoline, synthetic rubber, plastics, detergents, cement, paper, and pulp, by applying principles and technology of chemistry, physics, and engineering. *Examples: Absorption and Adsorption Engineer; Explosives Engineer*

**Training Category:** Bachelor's degree

<b>2007 Average Wage:</b>	\$34.92
<b>2006 Estimated Employment:</b>	61
<b>2016 Projected Employment:</b>	62
<b>Growth Rate, 2006-2016:</b>	1.6%
<b>Annual Openings:</b>	2

<b>Industry</b>	<b>2006 Share</b>	<b>2016 Share</b>
212 Mining (except Oil and Gas)	n	n
325 Chemical Manufacturing	n	n
326 Plastics & Rubber Products Manufacturing	n	n
334 Computer and Electronic Product Mfg	n	n
339 Miscellaneous Manufacturing	n	n
5417 Scientific Research and Development Svcs	n	n

**17-2051 Civil Engineers****VF**

Perform engineering duties in planning, designing, and overseeing construction and maintenance of building structures, and facilities, such as roads, railroads, airports, bridges, harbors, channels, dams, irrigation projects, pipelines, power plants, water and sewage systems, and waste disposal units. Include architectural, structural, traffic, ocean, and geo-technical engineers. *Examples: Bridge Engineer; Construction Engineer; Concrete Engineer*

**Training Category:** Bachelor's degree

<b>2007 Average Wage:</b>	\$32.37
<b>2006 Estimated Employment:</b>	1,082
<b>2016 Projected Employment:</b>	1,291
<b>Growth Rate, 2006-2016:</b>	19.3%
<b>Annual Openings:</b>	50

<b>Industry</b>	<b>2006 Share</b>	<b>2016 Share</b>
State Government, ex. Education and Hospitals	20.2%	17.9%
Local Government, ex. Education	5.0%	4.8%
Self-Employed Workers	4.9%	4.3%
Federal Government, ex. Postal Service	3.0%	2.3%
237 Heavy and Civil Engineering Construction	2.1%	2.0%
5413 Architectural and Engineering Services	n	n

**17-2061 Computer Hardware Engineers****FA**

Research, design, develop, and test computer or computer-related equipment for commercial, industrial, military, or scientific use. May supervise the manufacturing and installation of computer or computer-related equipment and components.

**Training Category:** Bachelor's degree

<b>2007 Average Wage:</b>	\$50.39
<b>2006 Estimated Employment:</b>	n
<b>2016 Projected Employment:</b>	n
<b>Growth Rate, 2006-2016:</b>	n
<b>Annual Openings:</b>	n

<b>Industry</b>	<b>2006 Share</b>	<b>2016 Share</b>
5415 Computer Systems Design & Related Svcs	8.5%	11.1%
Self-Employed Workers	3.7%	3.6%
334 Computer and Electronic Product Mfg	n	n
423 Merchant Wholesalers, Durable Goods	n	n
517 Telecommunications	n	n
5413 Architectural and Engineering Services	n	n

**17-2071 Electrical Engineers****FA**

Design, develop, test, or supervise the manufacturing and installation of electrical equipment, components, or systems for commercial, industrial, military, or scientific use. *Examples: Power Distribution Engineer; Illuminating Engineer; Relay Engineer*

**Training Category:** Bachelor's degree

<b>2007 Average Wage:</b>	\$36.95
<b>2006 Estimated Employment:</b>	1,090
<b>2016 Projected Employment:</b>	1,120
<b>Growth Rate, 2006-2016:</b>	2.8%
<b>Annual Openings:</b>	28

<b>Industry</b>	<b>2006 Share</b>	<b>2016 Share</b>
5413 Architectural and Engineering Services	6.7%	8.3%
333 Machinery Manufacturing	5.6%	5.7%
423 Merchant Wholesalers, Durable Goods	5.1%	5.9%
335 Electrical Equipment and Appliances	4.3%	4.8%
221 Utilities	n	n
334 Computer and Electronic Product Mfg	n	n

**17-2072 Electronics Engineers, Except Computer****FA**

Research, design, develop, and test electronic components and systems for commercial, industrial, military, or scientific use utilizing knowledge of electronic theory and materials properties. Design electronic circuits and components for use in fields such as telecommunications, aerospace guidance and propulsion control, acoustics, or instruments and controls. *Examples: Communications Engineer; Circuit Design Engineer; Guidance and Control Systems Engineer*

**Training Category:** Bachelor's degree

2007 Average Wage:	\$46.61
2006 Estimated Employment:	909
2016 Projected Employment:	983
Growth Rate, 2006-2016:	8.1%
Annual Openings:	28

Industry	2006 Share	2016 Share
Self-Employed Workers	2.2%	2.2%
334 Computer and Electronic Product Mfg	n	n
335 Electrical Equipment and Appliances	n	n
423 Merchant Wholesalers, Durable Goods	n	n
517 Telecommunications	n	n
5413 Architectural and Engineering Services	n	n

**17-2081 Environmental Engineers****VF**

Design, plan, or perform engineering duties in the prevention, control, and remediation of environmental health hazards utilizing various engineering disciplines. Work may include waste treatment, site remediation, or pollution control technology. *Examples: Soil Engineer; Industrial Hygiene Engineer; Pollution Control Engineer*

**Training Category:** Bachelor's degree

2007 Average Wage:	\$31.33
2006 Estimated Employment:	163
2016 Projected Employment:	206
Growth Rate, 2006-2016:	26.4%
Annual Openings:	9

Industry	2006 Share	2016 Share
5416 Management & Technical Consulting Svcs	27.6%	31.1%
State Government, ex. Education and Hospitals	11.7%	9.7%
Local Government, ex. Education	6.8%	5.8%
334 Computer and Electronic Product Mfg	n	n
5413 Architectural and Engineering Services	n	n
562 Waste Management and Remediation Service	n	n

**17-2111 Health and Safety Engineers, Except Mining Safety Engineers and Inspectors****LS**

Promote worksite or product safety by applying knowledge of industrial processes, mechanics, chemistry, psychology, and industrial health and safety laws. *Examples: Fire-Protection Engineer; Product Safety Engineer*

**Training Category:** Bachelor's degree

2007 Average Wage:	\$32.94
2006 Estimated Employment:	50
2016 Projected Employment:	56
Growth Rate, 2006-2016:	12.0%
Annual Openings:	2

Industry	2006 Share	2016 Share
State Government, ex. Education and Hospitals	12.0%	10.7%
236 Construction of Buildings	n	n
237 Heavy and Civil Engineering Construction	n	n
325 Chemical Manufacturing	n	n
335 Electrical Equipment and Appliances	n	n
336 Transportation Equipment Manufacturing	n	n

**17-2112 Industrial Engineers****VF**

Design, develop, test, and evaluate integrated systems for managing industrial production processes including human work factors, quality control, inventory control, logistics and material flow, cost analysis, and production coordination. *Examples: Packaging Engineer; Time Study Engineer; Plant Engineer*

**Training Category:** Bachelor's degree

2007 Average Wage:	\$35.67
2006 Estimated Employment:	776
2016 Projected Employment:	935
Growth Rate, 2006-2016:	20.5%
Annual Openings:	35

Industry	2006 Share	2016 Share
333 Machinery Manufacturing	7.6%	8.0%
326 Plastics & Rubber Products Manufacturing	7.4%	7.3%
339 Miscellaneous Manufacturing	6.8%	6.3%
332 Fabricated Metal Product Manufacturing	4.9%	5.4%
334 Computer and Electronic Product Mfg	n	n
336 Transportation Equipment Manufacturing	n	n

**17-2131 Materials Engineers****FA**

Evaluate materials and develop machinery and processes to manufacture materials for use in products that must meet specialized design and performance specifications. Develop new uses for known materials. Include those working with composite materials or specializing in one type of material, such as graphite, metal and metal alloys, ceramics and glass, plastics and polymers, and naturally occurring materials. *Example: Corrosion Engineer*

**Training Category:** Bachelor's degree

<b>2007 Average Wage:</b>	\$35.64
<b>2006 Estimated Employment:</b>	138
<b>2016 Projected Employment:</b>	153
<b>Growth Rate, 2006-2016:</b>	10.9%
<b>Annual Openings:</b>	5

<b>Industry</b>	<b>2006 Share</b>	<b>2016 Share</b>
334 Computer and Electronic Product Mfg	29.0%	28.1%
326 Plastics & Rubber Products Manufacturing	n	n
331 Primary Metal Manufacturing	n	n
332 Fabricated Metal Product Manufacturing	n	n
339 Miscellaneous Manufacturing	n	n
5417 Scientific Research and Development Svcs	n	n

**17-2141 Mechanical Engineers****FA**

Perform engineering duties in planning and designing tools, engines, machines, and other mechanically functioning equipment. Oversee installation, operation, maintenance, and repair of such equipment as centralized heat, gas, water, and steam systems. *Examples: Combustion Engineer; Plant Equipment Engineer; Hydraulic Engineer*

**Training Category:** Bachelor's degree

<b>2007 Average Wage:</b>	\$34.76
<b>2006 Estimated Employment:</b>	1,460
<b>2016 Projected Employment:</b>	1,527
<b>Growth Rate, 2006-2016:</b>	4.6%
<b>Annual Openings:</b>	39

<b>Industry</b>	<b>2006 Share</b>	<b>2016 Share</b>
334 Computer and Electronic Product Mfg	27.0%	25.1%
332 Fabricated Metal Product Manufacturing	17.7%	18.2%
333 Machinery Manufacturing	17.1%	17.8%
326 Plastics & Rubber Products Manufacturing	7.2%	6.5%
5417 Scientific Research and Development Svcs	6.2%	6.5%
5413 Architectural and Engineering Services	n	n

**17-2199 Engineers, All Other****FA**

All engineers not listed separately. *Examples: Optical Engineer; Salvage Engineer; Ordnance Engineer*

**Training Category:** Bachelor's degree

<b>2007 Average Wage:</b>	\$38.87
<b>2006 Estimated Employment:</b>	1,513
<b>2016 Projected Employment:</b>	1,602
<b>Growth Rate, 2006-2016:</b>	5.9%
<b>Annual Openings:</b>	27

<b>Industry</b>	<b>2006 Share</b>	<b>2016 Share</b>
334 Computer and Electronic Product Mfg	29.2%	26.2%
5413 Architectural and Engineering Services	8.7%	10.3%
Self-Employed Workers	6.4%	6.4%
5417 Scientific Research and Development Svcs	4.8%	5.0%
333 Machinery Manufacturing	n	n
425 Electronic Markets and Agents/Brokers	n	n

**17-3011 Architectural and Civil Drafters****FA**

Prepare detailed drawings of architectural and structural features of buildings or drawings and topographical relief maps used in civil engineering projects, such as highways, bridges, and public works. Utilize knowledge of building materials, engineering practices, and mathematics to complete drawings. *Example: Structural Drafter*

**Training Category:** Associate's degree

<b>2007 Average Wage:</b>	\$21.61
<b>2006 Estimated Employment:</b>	517
<b>2016 Projected Employment:</b>	546
<b>Growth Rate, 2006-2016:</b>	5.6%
<b>Annual Openings:</b>	18

<b>Industry</b>	<b>2006 Share</b>	<b>2016 Share</b>
5413 Architectural and Engineering Services	66.7%	67.0%
Self-Employed Workers	5.0%	4.8%
236 Construction of Buildings	n	n
238 Specialty Trade Contractors	n	n
321 Wood Product Manufacturing	n	n
5414 Specialized Design Services	n	n

**17-3012 Electrical and Electronics Drafters****LS**

Prepare wiring diagrams, circuit board assembly diagrams, and layout drawings used for manufacture, installation, and repair of electrical equipment in factories, power plants, and buildings.

**Training Category:** Associate's degree

2007 Average Wage:	\$26.84
2006 Estimated Employment:	209
2016 Projected Employment:	211
Growth Rate, 2006-2016:	1.0%
Annual Openings:	6

Industry	2006 Share	2016 Share
334 Computer and Electronic Product Mfg	67.9%	64.9%
Self-Employed Workers	5.7%	5.7%
221 Utilities	n	n
238 Specialty Trade Contractors	n	n
335 Electrical Equipment and Appliances	n	n
5413 Architectural and Engineering Services	n	n

**17-3013 Mechanical Drafters****FA**

Prepare detailed working diagrams of machinery and mechanical devices, including dimensions, fastening methods, and other engineering information. *Example: Aeronautical Drafter*

**Training Category:** Associate's degree

2007 Average Wage:	\$21.61
2006 Estimated Employment:	194
2016 Projected Employment:	215
Growth Rate, 2006-2016:	10.8%
Annual Openings:	8

Industry	2006 Share	2016 Share
332 Fabricated Metal Product Manufacturing	26.3%	27.9%
333 Machinery Manufacturing	22.2%	20.9%
Self-Employed Workers	5.7%	5.6%
326 Plastics & Rubber Products Manufacturing	n	n
334 Computer and Electronic Product Mfg	n	n
5413 Architectural and Engineering Services	n	n

**17-3019 Drafters, All Other****FA**

All drafters not listed separately. *Examples: Geological Drafter; Hull Drafter*

**Training Category:** Associate's degree

2007 Average Wage:	\$21.20
2006 Estimated Employment:	179
2016 Projected Employment:	204
Growth Rate, 2006-2016:	14.0%
Annual Openings:	8

Industry	2006 Share	2016 Share
236 Construction of Buildings	n	n
238 Specialty Trade Contractors	n	n
334 Computer and Electronic Product Mfg	n	n
425 Electronic Markets and Agents/Brokers	n	n
443 Electronics and Appliance Stores	n	n
5413 Architectural and Engineering Services	n	n

**17-3021 Aerospace Engineering and Operations Technicians****LS**

Operate, install, calibrate, and maintain integrated computer/communications systems consoles, simulators, and other data acquisition, test and measurement instruments and equipment. *Example: Flight Data Technician*

**Training Category:** Associate's degree

2007 Average Wage:	n/a
2006 Estimated Employment:	n
2016 Projected Employment:	n
Growth Rate, 2006-2016:	n
Annual Openings:	n

Industry	2006 Share	2016 Share
336 Transportation Equipment Manufacturing	n	n
339 Miscellaneous Manufacturing	n	n
517 Telecommunications	n	n

**17-3022 Civil Engineering Technicians****FA**

Apply theory and principles of civil engineering in planning, designing, and overseeing construction and maintenance of structures and facilities under the direction of engineering staff or physical scientists. *Example: Highway Technician*

**Training Category:** Associate's degree

<b>2007 Average Wage:</b>	\$23.35
<b>2006 Estimated Employment:</b>	183
<b>2016 Projected Employment:</b>	207
<b>Growth Rate, 2006-2016:</b>	13.1%
<b>Annual Openings:</b>	6

<b>Industry</b>	<b>2006 Share</b>	<b>2016 Share</b>
5413 Architectural and Engineering Services	78.1%	79.7%
Local Government, ex. Education	11.5%	11.6%
Self-Employed Workers	1.1%	1.0%
221 Utilities	n	n
6113 Colleges and Universities	n	n

**17-3023 Electrical and Electronic Engineering Technicians****FA**

Apply electrical and electronic theory and related knowledge, usually under the direction of engineering staff, to design, build, repair, calibrate, and modify electrical components, circuitry, controls, and machinery for subsequent evaluation and use by engineering staff in making engineering design decisions. *Examples: Calibration Laboratory Technician; Semiconductor Development Technician; Instrumentation Technician*

**Training Category:** Associate's degree

<b>2007 Average Wage:</b>	\$22.82
<b>2006 Estimated Employment:</b>	978
<b>2016 Projected Employment:</b>	989
<b>Growth Rate, 2006-2016:</b>	1.1%
<b>Annual Openings:</b>	20

<b>Industry</b>	<b>2006 Share</b>	<b>2016 Share</b>
334 Computer and Electronic Product Mfg	56.3%	52.8%
333 Machinery Manufacturing	4.6%	4.8%
491 Postal Service	4.4%	4.5%
335 Electrical Equipment and Appliances	n	n
423 Merchant Wholesalers, Durable Goods	n	n
425 Electronic Markets and Agents/Brokers	n	n

**17-3024 Electro-Mechanical Technicians****LF**

Operate, test, and maintain unmanned, automated, servo-mechanical, or electromechanical equipment. May operate unmanned submarines, aircraft, or other equipment at worksites, such as oil rigs, deep ocean exploration, or hazardous waste removal. May assist engineers in testing and designing robotics equipment.

**Training Category:** Associate's degree

<b>2007 Average Wage:</b>	\$23.74
<b>2006 Estimated Employment:</b>	98
<b>2016 Projected Employment:</b>	103
<b>Growth Rate, 2006-2016:</b>	5.1%
<b>Annual Openings:</b>	3

<b>Industry</b>	<b>2006 Share</b>	<b>2016 Share</b>
334 Computer and Electronic Product Mfg	43.9%	40.8%
333 Machinery Manufacturing	n	n
335 Electrical Equipment and Appliances	n	n
336 Transportation Equipment Manufacturing	n	n
5419 Other Professional & Technical Services	n	n
713 Amusements, Gambling, and Recreation	n	n

**17-3025 Environmental Engineering Technicians****FA**

Apply theory and principles of environmental engineering to modify, test, and operate equipment and devices used in the prevention, control, and remediation of environmental pollution, including waste treatment and site remediation. May assist in the development of environmental pollution remediation devices under direction of engineer. *Examples: Air Analysis Technician; Soil Technician*

**Training Category:** Associate's degree

<b>2007 Average Wage:</b>	\$24.56
<b>2006 Estimated Employment:</b>	65
<b>2016 Projected Employment:</b>	82
<b>Growth Rate, 2006-2016:</b>	26.2%
<b>Annual Openings:</b>	3

<b>Industry</b>	<b>2006 Share</b>	<b>2016 Share</b>
221 Utilities	n	n
334 Computer and Electronic Product Mfg	n	n
339 Miscellaneous Manufacturing	n	n
5413 Architectural and Engineering Services	n	n
5416 Management & Technical Consulting Svcs	n	n
562 Waste Management and Remediation Service	n	n

**17-3026 Industrial Engineering Technicians****FA**

Apply engineering theory and principles to problems of industrial layout or manufacturing production, usually under the direction of engineering staff. May study and record time, motion, method, and speed involved in performance of production, maintenance, clerical, and other worker operations for such purposes as establishing standard production rates or improving efficiency. *Examples: Methods Study Analyst; Quality Control Technician; Time Study Analyst*

**Training Category:** Associate's degree

2007 Average Wage:	\$22.70
2006 Estimated Employment:	339
2016 Projected Employment:	381
Growth Rate, 2006-2016:	12.4%
Annual Openings:	11

Industry	2006 Share	2016 Share
333 Machinery Manufacturing	11.2%	11.8%
331 Primary Metal Manufacturing	n	n
332 Fabricated Metal Product Manufacturing	n	n
334 Computer and Electronic Product Mfg	n	n
335 Electrical Equipment and Appliances	n	n
423 Merchant Wholesalers, Durable Goods	n	n

**17-3027 Mechanical Engineering Technicians****LS**

Apply theory and principles of mechanical engineering to modify, develop, and test machinery and equipment under direction of engineering staff or physical scientists. *Examples: Heat Transfer Technician; Optomechanical Technician; Tool Analyst*

**Training Category:** Associate's degree

2007 Average Wage:	\$21.79
2006 Estimated Employment:	340
2016 Projected Employment:	358
Growth Rate, 2006-2016:	5.3%
Annual Openings:	9

Industry	2006 Share	2016 Share
333 Machinery Manufacturing	26.2%	27.1%
5417 Scientific Research and Development Svcs	16.8%	17.6%
332 Fabricated Metal Product Manufacturing	8.8%	8.9%
326 Plastics & Rubber Products Manufacturing	8.5%	7.5%
327 Nonmetallic Mineral Product Mfg	n	n
334 Computer and Electronic Product Mfg	n	n

**17-3029 Engineering Technicians, Except Drafters, All Other****LS**

All engineering technicians, except drafters, not listed separately. *Examples: Laser Specialist; Metallurgical Technician; Material Stress Tester*

**Training Category:** Associate's degree

2007 Average Wage:	\$21.78
2006 Estimated Employment:	578
2016 Projected Employment:	577
Growth Rate, 2006-2016:	-0.2%
Annual Openings:	11

Industry	2006 Share	2016 Share
State Government, ex. Education and Hospitals	23.7%	25.1%
339 Miscellaneous Manufacturing	11.3%	10.4%
Federal Government, ex. Postal Service	8.1%	7.5%
333 Machinery Manufacturing	n	n
334 Computer and Electronic Product Mfg	n	n
5413 Architectural and Engineering Services	n	n

**17-3031 Surveying and Mapping Technicians****VF**

Perform surveying and mapping duties, usually under the direction of a surveyor, cartographer, or photogrammetrist to obtain data used for construction, mapmaking, boundary location, mining, or other purposes. May calculate mapmaking information and create maps from source data, such as surveying notes, aerial photography, satellite data, or other maps to show topographical features, political boundaries, and other features. May verify accuracy and completeness of topographical maps. *Examples: Cartographic Technician; Map Drafter; Stereo Map Plotter Operator*

**Training Category:** Moderate-term OJT (1 to 12 months)

2007 Average Wage:	\$15.54
2006 Estimated Employment:	487
2016 Projected Employment:	579
Growth Rate, 2006-2016:	18.9%
Annual Openings:	18

Industry	2006 Share	2016 Share
5413 Architectural and Engineering Services	58.3%	61.0%
State Government, ex. Education and Hospitals	8.6%	7.6%
Local Government, ex. Education	5.1%	5.0%
Self-Employed Workers	4.1%	3.6%
511 Publishing Industries	n	n